



National Science Foundation

Excepted Position Vacancy

ANNOUNCEMENT NO: E20020120

OPEN: 05/24/02

CLOSE: 07/26/02

THIS IS A PERMANENT POSITION.

INDIVIDUALS WISHING TO APPLY FOR A ONE OR TWO YEAR VISITING SCIENTIST, TEMPORARY, OR INTERGOVERNMENTAL PERSONNEL ACT (IPA) BASIS SEE VACANCY ANNOUNCEMENT E20020121 ROTATOR .

POSITION VACANT: Computer Scientist (Program Director), AD-1550-4, salary ranges from \$78,265.00 to \$121,967.00 per annum.

PROMOTION POTENTIAL: None

LOCATION: Directorate for Computer and Information Science and Engineering (CISE), Division of Information and Intelligent Systems (IIS), Arlington, VA..

BARGAINING UNIT STATUS: This position is included in the bargaining unit and will be filled in accordance with the merit staffing provisions of the Collective Bargaining Agreement Article VII.

AREA OF CONSIDERATION: All sources. **This position is outside the competitive civil service.**

Appointment to this position will be made under the Excepted Authority of the NSF Act. Candidates currently in the competitive civil service will be required to waive competitive civil service rights if selected. Disabled veterans with 30% service-connected disabilities as well as other applicants with severe disabilities will be considered without regard to the closing date if applications are received prior to the final selection.

DUTIES AND RESPONSIBILITIES: The National Science Foundation is seeking a qualified candidate for a position to be filled in the Division of Information and Intelligent Systems (IIS), Directorate for Computer and Information Science and Engineering (CISE), Arlington, VA. The Division of Information and Intelligent Systems strives to increase the ability to use information for human ends by supporting research to improve the ability to generate, store, organize, locate, communicate and store knowledge using new technologies. This recognizes that high quality content, its accessibility, and its usability are important benefits provided by new technology and are complementary to bandwidth and disk space. Fundamental research foci include universal access, human language technology, knowledge modeling, scientific collaboration, robotics, computer vision, data mining, database access technology, human-computer interaction, and embedded intelligent systems. IIS supports interdisciplinary and interagency activities such as the Digital Library and STIMULATE (Speech, Text, Image and Multimedia Advanced Technology Effort) initiatives.

The incumbent of this position serves as Program Director for the Robotics and Human Augmentation Program located in the Division of Information and Intelligent Systems. The Division's goal is to increase scientific understanding of information processes in organisms and machines, to expand the body of scientific knowledge that can be applied in the design of robotic and other intelligent systems, and to strengthen the infrastructure for research in this field. The Robotics and Human Augmentation Program supports scientific and engineering research fundamental to the design on systems capable of implementing some of the characteristics of human intelligence. Representative topics include pattern analysis, machine vision, speech understanding, automated reasoning, and planning of complex tasks involving temporal and spatial relationships, typically encountered in a robotic system. The incumbent of this position:

- Plans, coordinates, and manages activities primarily through Federal grants and contracts to academic institutions, non-profit, non-academic institutions.
- Initiates new programs, organizing symposia, and assessing objectives of research efforts which have impact on the diverse applications of advanced information and knowledge-based technology.
- Serves as the NSF representative on permanent or ad hoc committees to evaluate proposals, to assess the scientific quality and validity of ongoing research and to plan future approaches.
- Plans and administers the Program within the framework of legislation, agency policies, missions, objectives and resources and serves as spokesperson for NSF with regard to the scientific community.
- Serves as a recognized authority in robotics and machine intelligence/computer science.
- Designs and implements the proposal review and process for the Program to assure quality research proposals and the adequacy of review.
- Negotiates revision of proposal budgets when appropriate and serves as on-going advisor to applicants and grantee concerning NSF policies, requirements, regulations, and program objectives.
- Conducts final review of proposals and evaluations and recommends awards or declinations.

QUALIFICATIONS REQUIRED: Applicants must possess a Ph.D. or equivalent experience in computer science or a comparable field of science or engineering that is closely related to robotics. In addition, at least six or more years of research, education, research administration, and/or managerial experience beyond the Ph.D. pertinent to the above disciplines.

CONDITIONS OF EMPLOYMENT: Appointment to the position is contingent upon successful completion of the appropriate background investigation. Satisfactory completion of a one-year trial period is required.

QUALITY RANKING FACTORS: Final ranking is based upon job-related experience, training, education, awards, performance appraisals or letters of recommendation, and the following knowledge, skills, and abilities:

- Knowledge of robotics and machine intelligence/computer science.
- Skill in gathering scientific information and communicating both orally and in writing with NSF/governmental staff persons, as well as representatives from the scientific and/or engineering community.
- Skills in conducting scientific/technical analyses of proposals, and conducting final review of proposals and evaluations to recommend awards or declinations based on scientific merit, and evaluation of the availability of resources.
- Ability to manage, monitor grants, contracts, and cooperative agreements to ensure fulfillment of commitments to the National Science Foundation and provide guidance to program staff as well as provide oversight and management of the Program.
- Skill in preparing program budget and operating requirements for the Program and in serving in a lead capacity for coordinating the budget request plan for the Division Director.

HOW TO APPLY: You may apply for this position with the Optional Application for Federal Employment (OF-612), the older Application for Federal Employment (SF-171), a resume, or other application format of your choice - so long as it contains the necessary information (summarized below). You must submit a current Performance Appraisal or letters of recommendation from professionals who can comment on your capabilities.

You must specify the job announcement number, and title and grade(s) of the job for which you are applying. You should also provide the following information: Your country of citizenship. Your social security number. Information about your education, including (1) high school graduation date and (2) college/university information - your major, and type and year of degree(s). Information about all your work experience related to this job, including job titles, duties and accomplishments, employer's name and phone number, number of hours worked per week, starting and ending dates (month and year), and annual salary. If you held various positions with the same employer, describe each separately. If you have Federal civilian experience, indicate the highest grade held, the job series, and dates held. The brochure *Applying for a Federal Job* provides information on the Federal job application process; it is available by calling the number listed below. **If your application does not provide all the information requested in the vacancy announcement, you may lose consideration for this job.**

Submit all application material to National Science Foundation, Division of Human Resource Management, 4201 Wilson Boulevard, Room 315, Arlington, VA 22230. Attn: Announcement Number E20020120. In addition to the required application materials, you are asked to complete and submit the attached Applicant Survey form. Submission of this form is voluntary and will not affect your application for employment. The information is used for statistical purposes only. **ALL FORMS MUST BE RECEIVED BY THE CLOSING DATE OF THIS ANNOUNCEMENT.** For additional information call Myra Loyd, on (703) 292-4363. Hearing impaired individuals may call TDD (703) 292-8044.

NSF IS AN EQUAL OPPORTUNITY EMPLOYER COMMITTED TO EMPLOYING A HIGHLY QUALIFIED STAFF THAT REFLECTS THE DIVERSITY OF OUR NATION.

**NATIONAL SCIENCE FOUNDATION
APPLICANT SURVEY**

**OMB No. 3145-0096
Expiration: August 2002**

Vacancy Ann. #: _____

Position Status (temporary/permanent): _____

Position Title/Series/Grade: _____

INSTRUCTIONS

Your completion of this form will be appreciated. Submission of this Information is voluntary and it will have no effect on the processing of your application. The data collected will be used only for statistical purposes to ensure that agency personnel practices meet the requirements of Federal law. Pursuant to 5 CFR 1320.5(b), an agency may not conduct or sponsor, and a person is not required to respond to an information collection unless it displays a valid OMB control number. The OMB control number for this collection is 3145-0096. NSF estimates that each respondent should take about 3 minutes to complete this survey, including time to read the instructions. You may have comments regarding this burden estimate or any other aspect of this survey, including suggestions for reducing this burden. If so, please send them to NSF Reports Clearance Officer, Division of Administrative Services, NSF, 4201 Wilson Blvd., Arlington, VA. 22230.

PRIVACY ACT INFORMATION

GENERAL - This information is provided pursuant to Public Law 93-579 (Privacy Act of 1974), December 31, 1974, for individuals completing Federal records and forms that solicit personal information.

AUTHORITY - Section 7201 of title 5 of the U.S. Code and Section 2000e-16 of title 42 of the U.S. Code.

PURPOSE AND ROUTINE USES

The information is used for research and for a Federal Equal Opportunity Recruitment Program (FEORP) to help insure that agency personnel practices meet the requirements of Federal law. Address questions concerning this form and its uses to the Privacy Act Officer, National Science Foundation, Arlington, VA 22230.

1. Today's Date: _____

2. Year of Birth: _____

3. How did you learn about the particular position for which you are applying? (Circle appropriate number.)

01 - Newspaper (specify)

10 - Federal, State or local job information center

02 - Contact with NSF Personnel Office

11 - State vocational rehabilitation agency or

(Agency Bulletin Board or other Announcement)

Veterans Administration

03 - NSF-initiated personal contact

12 - State employment office

04 - Science Magazine, or other professional journal or magazine

13 - School or college counselor or other official

(specify)

14 - Private job Information service

05 - Affirmative Action Register

15 - Private employment service

06 - Attendance at conference, meeting or job fair

16 - Friend or relative working at NSF

(specify)

17 - Friend or relative not working at NSF

07 - NSF recruitment at school or college

18 - NSF website

08 - Colleague referral

19 - Internet or other website

09 - NSF Bulletin

20 - Other (specify)

4. Please select the racial/ethnic category with which you most closely identify yourself. (Circle the appropriate letter)

A. **American Indian or Alaskan Native.** A person having origins in any of the original peoples of North America, who maintains cultural identification through tribal affiliation or community recognition.

B. **Asian or Pacific Islander.** A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, India, Korea, the Philippine Islands, and Samoa.

C. **Black, not of Hispanic origin.** A person having origins in any of the Black racial groups of Africa. This does not include persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish cultures or origins.

D. **Hispanic.** A person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.

E. **White, not of Hispanic origin.** A person having origins in any of the original peoples of Europe, North Africa or the Middle East. This does not include persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish cultures or origin.

5. Sex (Circle the appropriate letter.) F - Female M - Male

6. Please provide Information on your disability status by circling the appropriate category below:

1. I do not have a disability; 2. Hearing impairment; 3. Vision impairment; 4. Missing extremities; 5. Partial paralysis; 6. Complete paralysis; 7.

Convulsive disorder; 8. Mental retardation; 9. Mental or emotional illness; 10. Severe distortion of limbs and/or spine; 11. I have a disability but it is not listed.

FOR AGENCY USE

Agency Code: _____

AN EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER